## WHAT IS CLAIMED IS:

1. A probe, comprising	1.	A pi	robe,	compr	isinq	:
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- a probe body having a body longitudinal axis and a shoulder;
- 3 and metal Middle.

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- a microstylet mechanically coupled to and extending from the shoulder and having a microstylet longitudinal axis coincident the body longitudinal axis, the microstylet having a cross section substantially smaller than a cross section of the probe body.
  - 2. The probe as recited in Claim 1 wherein the microstylet comprises an acerate microparticle selected from the group consisting of:
    - a carbon whisker;
    - a metal needle; and
- 6 a diamond.

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- 3. The probe as recited in Claim 1 wherein the carbon nanotube is a single-walled carbon nanotube or a multi-walled carbon nanotube.
  - 4. The probe as recited in Claim 1 wherein the probe body comprises a tube.

- The probe as recited in Claim 1 wherein the probe body
   comprises a glass tube.
- 6. The probe as recited in Claim 1 wherein a portion of the microstylet resides within the probe body.
  - 7. The probe as recited in Claim 1 wherein the shoulder includes a fastigiate shoulder.

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8. The probe as recited in Claim 1 wherein the probe is a field emitter, a micromanipulator or a microinjector.

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9.	Α	method	of	manufacturing	а	probe,	comprising:

2 providing a hollow probe body having a body longitudinal axis

3 and an inner wall;

filling at least a portion of the hollow probe body with a suspension including microstylets;

drawing the portion to align a longitudinal axis of at least one of the microstylets with the body longitudinal axis; and exposing the at least one of the microstylets.

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- 10. The method as recited in Claim 9 wherein exposing includes etching an end of the portion.
- 11. The method as recited in Claim 10 wherein the etching includes a first etch and a second etch.
- 12. The method as recited in Claim 9 further comprising 2 sealing an end of the probe body prior to the filling.
  - 13. The method as recited in Claim 9 wherein filling includes filling wherein the microstylets are selected from the group consisting of:
- 4 a/carbon nanotube;
- 5 /a carbon whisker;

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2m 7m 7m 3m

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7 a diamond.

- 14. The method as recited in Claim 13 wherein filling includes filling wherein the carbon nanotube is a single-walled carbon nanotube or a multi-walled carbon nanotube.
  - 15. The method as recited in Claim 9 wherein filling includes filling with a suspension further comprising a menstruum having high volatility.
  - 16. The method as recited in Claim 15 further comprising evaporating the menstruum to cause the microstylets to adhere to the inner wall.
  - 17. The method as recited in Claim 15 wherein filling includes filling wherein the menstruum is a low carbon number alcohol.
  - 18. The method as recited in Claim 17 wherein filling includes filling wherein the low carbon number alcohol is selected from the group consisting of:
- 4 methyl alcohol;

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5 ethyl alcohol; and

isopropyl alcohol.

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- 19. The method as recited in Claim 9 wherein drawing includes
  2 applying a force aligned with the body longitudinal axis to an end
  3 of the probe body.
  - 20. The method as recited in Claim 9 wherein drawing includes applying heat to the portion.

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- 21. A probe, comprising:
- 2 a probe body having a body longitudinal axis and a shoulder;
- 3 and
- a carbon nanotube mechanically coupled to and extending from
- 5 the shoulder and having a carbon nanotube longitudinal axis
- 6 coincident the body longitudinal axis, the carbon nanotube having
- 7 a cross section substantially smaller than a cross section of the
- β<sub>=</sub> probe body.
  - 22. The probe as recited in Claim 21 wherein the carbon nanotube is a single-walled carbon nanotube or a multi-walled carbon nanotube.